| Index of Claims |  |
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| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/664,751              | DALY ET AL.                             |
| Examiner                | Art Unit                                |

2837

| <b>√</b> | Rejected | _ | (Through numeral)<br>Cancelled |
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| N | Non-Elected  |   |   | Appeal   |
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| ı | Interference | C | , | Objected |

Edgardo San Martin

| E     D       | Cla                    | Claim Date |                        |          |          |              | Date Claim Date |          |          |             |                 | ] [      | Cla           | aim      | Date      |          |                 |          |              |     |      |     |          |                  |         |           |          |                 |          |          |
|---|------------------------|------------|------------------------|----------|----------|--------------|-----------------|----------|----------|-------------|-----------------|----------|---------------|----------|-----------|----------|-----------------|----------|--------------|-----|------|-----|----------|------------------|---------|-----------|----------|-----------------|----------|----------|
| 1     J     51     101     102     102     103     103     103     103     103     103     104     105     105     105     105     105     105     105     105     105     105     106     106     106     107     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111  |                        | <u>_</u>   | ွ                      |          |          |              |                 |          |          |             |                 | <u>a</u> |               |          |           |          |                 | П        |              | 1   |      | -m  |          |                  |         |           | T        |                 |          |          |
| 1     J     51     101     102     102     103     103     103     103     103     103     104     105     105     105     105     105     105     105     105     105     105     106     106     106     107     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111  | l a                    | Ë          | 0,9                    |          |          |              |                 |          |          |             | 밀               | ji       |               |          |           |          |                 |          | -            |     | la l | ij  |          |                  | ŀ       | .         |          |                 |          |          |
| 1     J     51     101     102     102     103     103     103     103     103     103     104     105     105     105     105     105     105     105     105     105     105     106     106     106     107     108     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     109     110     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111     111  | 证                      | Ĕ          | 2                      | İ        |          | 1            |                 |          |          |             | 這               | )rić     |               |          |           |          | i I             | - [      | - 1          |     | 這    | ř   | ĺ        |                  |         |           |          |                 |          |          |
| 1   | <u></u>                |            |                        |          | 丄        | 丄            | <u> </u>        | Ш        |          | 1 L         |                 |          |               | $\perp$  |           |          |                 | $\perp$  |              |     |      |     | L        |                  | $\perp$ | $\perp$   |          |                 |          |          |
| 3   |                        |            | $ \downarrow $         |          | _        | ㄴ            | <u> </u>        | $\sqcup$ | -        | <b>↓</b> ↓  |                 | 51       | $\rightarrow$ | $\dashv$ |           | $\perp$  | Ш               | $\perp$  |              |     |      |     |          |                  |         |           | <u> </u> |                 |          |          |
| 4   | <u></u>                |            | $\sqcup \sqcup$        |          | _        | <u> </u>     | _               | Ш        |          | Į Ļ         |                 |          | $\Box$        | _        |           |          |                 | _        |              | 11  |      |     |          |                  | 1       | _         | _        | Ш               |          |          |
| 5   |                        |            | Ш                      | _        | _        | _            | _               |          | _        | l L         |                 | 53       | _             | 4        | _         |          |                 | 4        |              |     |      |     | _        | $\sqcup$         | $\perp$ | ┸         | _        | Щ               |          |          |
| 6   |                        |            | H                      | -        | +-       | ╄            | _               | $\vdash$ |          | Į ⊦         |                 | 54       | $\dashv$      | _        |           | _        | _               | $\dashv$ | -            | 1   |      | 104 |          | $oxed{oxed}$     | +       | ļ         |          | Ш               | Ш        |          |
| 10  | -                      |            | $\mathbb{H}^+$         |          | +        | -            | -               | $\vdash$ | -        | ┨┝          |                 |          | $\dashv$      | -        |           | -        | $\vdash$        | _        |              |     |      | 105 | <u> </u> | <b> </b>         | +       | 1         | ╄        | $\perp$         | Н        | _        |
| See   108   109   100 | -                      |            | ₩                      |          | ┿        | ╁            | -               | H        |          | {   ⊢       |                 | 57       | $\dashv$      | -+       | +         | +-       | $\dashv$        | +        | +            | 1   |      |     | <u> </u> |                  | +-      | +-        | ╀        | $\vdash$        | Н        | _        |
| 9   | $\vdash$               |            | ╟┼                     |          | ╫        | $\vdash$     | -               | $\vdash$ |          | ┤├          |                 |          | -             | +        | +         | ┼        | $\dashv$        | +        |              | 1   |      | 107 | -        |                  | ╁       | ╀         | ╁        | $\vdash$        | Н        | $\dashv$ |
| 10  | $\vdash$               |            | ╫┼                     | -        | +        | 1            | $\vdash$        | $\vdash$ | +        | {           | $\dashv$        | 50       | $\vdash$      | $\dashv$ | -         | +-       | $\dashv$        | +        | +-           | 1   |      | 100 | -        | $\vdash$         | +       | ╆         | ╁        | Н               | Н        | $\dashv$ |
| 11  | $\vdash$               |            | HH                     | -        | +        | <del> </del> | -               | $\vdash$ | $\dashv$ | ┨┝          |                 | 60       | $\vdash$      | $\dashv$ |           | ╁        | $\vdash$        | +        | +            | 1   |      | 110 |          | <del>     </del> | +       | +         | ╁        | $\vdash$        | H        |          |
| 12  |                        |            | H +                    | +        | +        | 1            | H               | ┨        | +        | ┧┝          | $\dashv$        |          | -             | $\dashv$ | +-        | ╆        |                 | +        |              | 1 1 |      |     | $\vdash$ | <del>   -</del>  | +       | +         | ╁        | $\vdash$        | Н        |          |
| 13  |                        |            | HH                     | +        | +        | +            | $\vdash$        | $\vdash$ | $\dashv$ | 1           |                 | 62       | $\vdash$      | +        | +         | +        | $\vdash \vdash$ | $\dashv$ | +            | 1   |      |     | H        | <del>   -</del>  | +       | +         | +        | Н               | H        | $\dashv$ |
| 14  |                        |            | $\dag \dag \dag$       | $\dashv$ | +        | T            | $\Box$          | -        | $\neg$   | 1           |                 | 63       | +             | $\dashv$ | $\dashv$  | +-       | $\vdash$        | $\dashv$ | +            | 1   |      |     | $\vdash$ |                  | +       | +-        | +        | Н               | H        | $\dashv$ |
| 15  |                        |            | $\dag \dag \dag$       | 7        | $\top$   | $\vdash$     |                 | $\Box$   | $\dashv$ | 1           |                 |          | $\dashv$      | $\dashv$ | +         | $\top$   | $\vdash$        |          | +-           | 1   |      |     | Ι        | $\vdash$         | +-      | +-        | $\vdash$ | $\vdash$        | Н        | $\vdash$ |
| 16  |                        |            | $H^{\dagger}$          | $\top$   | $\top$   | 1            |                 | $\sqcap$ |          | 1           | 一               | 65       | 1             | $\dashv$ | $\top$    | T        | $\vdash$        | $\dashv$ | <del> </del> | i I |      | 115 | Н        | $\vdash$         | +-      | $\dagger$ | T        | Н               | Н        | $\dashv$ |
| 17  |                        |            | $ \uparrow \uparrow  $ |          | 1        |              |                 |          | 7        | 1           |                 | 66       |               | _        | $\dashv$  | 1        | $\sqcap$        | $\dashv$ | $\top$       | 1   |      | 116 |          | $\vdash$         | +-      | +         | +        | Н               | П        | $\dashv$ |
| 18  |                        |            | П                      |          | $\top$   |              |                 |          |          | 1           | $\neg \uparrow$ |          |               |          |           | $\top$   | $\Box$          |          |              | 1 1 |      |     |          |                  | 1       | +         | $\top$   | П               | П        |          |
| 19  |                        | 18         | $\Box$                 |          | 1        | Т            |                 | П        | $\neg$   | 1           |                 |          |               | $\neg$   |           |          |                 |          |              | 1 1 |      |     | _        |                  | $\top$  | †         | T        | $\vdash$        | П        |          |
| 120   1   121   121   122   123   123   124   124   125   |                        |            |                        |          |          |              |                 | П        | 1        | 1 [         |                 |          |               | $\top$   | 丁         | $\top$   |                 | T        |              | 1 1 |      | 119 | Г        |                  | 1       | $\top$    | T        | П               | П        |          |
| 121   1   |                        | 20         | T                      |          |          | T-           |                 | П        |          | 1 [         |                 |          |               | $\neg$   | T         | 1        | $\neg$          | $\neg$   |              | 1 1 |      | 120 | $\vdash$ |                  | T       | T         | 1        | $\Box$          | П        |          |
| 22   122   122   123     24   125   124   123   124     25   75   126   125   126   125     26   77   77   128   126   127   128   127   128   129   129   129   129   129   130   130   130   131   130   131   132   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   133   134   135   136   136   136   137   137   137   138   138   139   140   141   141   141   141   144   144   144   144   144   144   144   144   144   144   144   144   144   144  |                        |            | V                      |          |          |              |                 |          |          | 1 [         | Î               | 71       | $\Box$        |          | T         |          |                 |          |              | 1   |      | 121 |          |                  | T       | $\top$    | T        | $\Box$          | П        |          |
| 23     123     124     125     124     125     126     126     126     126     126     126     126     126     127     128     129     129     129     129     129     130     131     131     132     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     134     134     134     134     134     134     135     136     136     136     136     136     136     136     137     138     139     140     141     142     142     142     143     144     144     144     144     144     144  |                        |            |                        |          |          |              |                 | П        |          | 1 [         |                 | 72       | $\Box$        | $\neg$   |           | 1        |                 |          |              | 1   |      | 122 |          |                  | T       | $\top$    |          | $\Box$          |          |          |
| 25     125     125     126     126     126     126     126     126     127     128     127     128     127     128     127     128     127     128     129     129     129     129     129     130     130     130     130     131     131     131     131     131     132     133     133     133     133     133     133     133     133     133     133     133     133     133     133     134     135     135     135     135     135     135     136     136     137     137     138     138     139     139     139     139     139     139     139     139     139     139     140     141     141     142     143     144     144     144     144     144     144     144     144     144     144     144     144     145     145     146     146     146     146     147     149     149  |                        | 23         |                        |          |          |              |                 |          |          | ] [         |                 | 73       |               |          |           |          |                 |          |              |     |      | 123 |          |                  | T       | 1         |          | П               | П        |          |
| 26  |                        |            |                        |          |          |              |                 |          |          | ] [         |                 |          |               |          |           |          |                 |          |              |     |      | 124 |          |                  | Τ       | Τ         |          | П               | П        |          |
| 27   1  |                        | 25         |                        |          | $\perp$  |              |                 |          |          |             |                 | 75       |               |          |           |          |                 |          |              | ] [ |      | 125 |          |                  |         |           |          |                 |          |          |
| 28   128   128   128   129   129   129   129   129   129   130   130   131   131   131   131   131   131   131   131   132   133   13   |                        | 26         |                        |          | ┸        | L            |                 |          |          | lL          |                 | 76       |               |          |           |          |                 |          |              |     |      | 126 |          |                  |         |           |          |                 |          |          |
| 29   129   129   130   130   130   130   130   130   131   131   131   131   131   131   132   133   133   133   133   133   133   133   133   133   134   134   134   134   134   134   135   135   136   136   137   137   137   137   137   137   137   137   139   139   139   139   139   139   140   140   140   140   140   140   141   142   142   142   143   143   144   145   146   147   147   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   14   |                        |            |                        |          | $\perp$  | <u> </u>     | Ш               | Ш        |          | l L         |                 |          |               |          |           |          |                 |          |              |     |      |     |          |                  |         |           |          |                 |          |          |
| 130   | Ш                      | 28         |                        |          |          |              | Ш               |          |          | ŀ L         |                 | 78       | _             | _        |           |          |                 | $\perp$  |              |     |      | 128 |          |                  | $\perp$ |           |          |                 |          |          |
| 31   32   33   34   35   35   36   37   38   37   38   39 <td< td=""><td></td><td></td><td>_</td><td></td><td>┷</td><td></td><td></td><td></td><td></td><td>   </td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>129</td><td></td><td></td><td></td><td>_</td><td>L</td><td>Ш</td><td>Ш</td><td></td></td<>  |                        |            | _                      |          | ┷        |              |                 |          |          |             |                 |          | _             |          |           |          |                 |          |              |     |      | 129 |          |                  |         | _         | L        | Ш               | Ш        |          |
| 32  | $\Box$                 | 30         | Щ.                     | _        |          |              |                 |          |          | <b>!</b>    | _               |          | _             | 4        | _         | $\perp$  | $\Box$          | _        |              |     |      |     |          |                  | ┸       | 丄         | L        |                 | Ш        | _        |
| 33   133   133   134     35   134   134   134     36   135   135   136     37   136   137   137     38   136   137   138     39   139   139   139     40   139   140   141     41   141   141   142     92   144   142   143     93   144   144   144     45   96   146   147     96   98   148   149   | <del>  </del>          | 31         | +                      |          | <b>↓</b> |              | Ш               | $\vdash$ |          | l ⊢         | $\dashv$        |          | _             | _        | _ _       | _        | _               |          | 4_           |     |      | 131 |          |                  |         | 1         | _        | Ш               | Щ        | _        |
| 34  | $\vdash$               |            | _                      | +        |          | Н            | Н               | $\vdash$ |          | l ⊢         | -               |          | -             | 4        |           | 1        |                 | _        |              |     |      | 132 |          |                  | +-      | ╄-        | ╙        | Ш               | Ш        | _        |
| 35   36   37   38   37   38   39 <td< td=""><td><math>\vdash</math></td><td>33</td><td>-</td><td>-</td><td>╂—</td><td>H</td><td>Ш</td><td><math>\vdash</math></td><td>_</td><td>l  -</td><td>∤</td><td></td><td>4</td><td>+</td><td>- </td><td>1</td><td>_</td><td></td><td></td><td>   </td><td>,</td><td></td><td></td><td></td><td>+</td><td>↓_</td><td>↓_</td><td>Ш</td><td><b></b></td><td>႕</td></td<>   | $\vdash$               | 33         | -                      | -        | ╂—       | H            | Ш               | $\vdash$ | _        | l  -        | ∤               |          | 4             | +        | -         | 1        | _               |          |              |     | ,    |     |          |                  | +       | ↓_        | ↓_       | Ш               | <b></b>  | ႕        |
| 36   37   38   37   38   39   38   39 <td< td=""><td><math>\vdash\vdash</math></td><td>25</td><td></td><td></td><td>+</td><td>-</td><td>Н</td><td><math>\vdash</math></td><td></td><td><b>!</b></td><td></td><td>05</td><td>+</td><td><math>\dashv</math></td><td>+</td><td>-</td><td><math>\dashv</math></td><td>+</td><td>-</td><td>   </td><td></td><td>134</td><td></td><td></td><td>╁</td><td>┼</td><td>⊢</td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\dashv</math></td></td<>   | $\vdash\vdash$         | 25         |                        |          | +        | -            | Н               | $\vdash$ |          | <b>!</b>    |                 | 05       | +             | $\dashv$ | +         | -        | $\dashv$        | +        | -            |     |      | 134 |          |                  | ╁       | ┼         | ⊢        | $\vdash$        | $\vdash$ | $\dashv$ |
| 37   38   39   38   39   38   39 <td< td=""><td><math>\vdash \vdash \vdash</math></td><td></td><td>+</td><td>+</td><td>+</td><td><math>\vdash</math></td><td>Н</td><td><math>\vdash</math></td><td></td><td>╎├</td><td></td><td></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td>+</td><td><math>\vdash</math></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td>- </td><td>   </td><td></td><td></td><td>_</td><td><math>\vdash</math></td><td>+</td><td>+</td><td>╀</td><td><math>\vdash \vdash</math></td><td></td><td>_</td></td<>   | $\vdash \vdash \vdash$ |            | +                      | +        | +        | $\vdash$     | Н               | $\vdash$ |          | ╎├          |                 |          | $\dashv$      | $\dashv$ | +         | $\vdash$ | $\dashv$        | $\dashv$ | -            |     |      |     | _        | $\vdash$         | +       | +         | ╀        | $\vdash \vdash$ |          | _        |
| 38   39   138   139   139   139   139   139   139   139   140   140   140   140   140   141   141   141   141   141   141   141   141   141   142   142   143   143   143   144   144   144   144   144   144   144   145   146   146   147   147   148   148   149   | $\vdash \vdash \vdash$ | 37         | +                      | $\dashv$ | +        | $\vdash$     | _               |          | +        |             |                 |          | $\dashv$      | $\dashv$ | +         | $\vdash$ | -+              | - -      |              |     |      | 130 | $\vdash$ |                  | +       | +         | +-       | ├┤              | _        | $\dashv$ |
| 39   89   139     40   140     41   90     91   141     92   142     93   143     94   144     95   145     96   146     97   147     98   148     99   149   | $\vdash \vdash \vdash$ | 38         | +                      |          | +        | $\vdash$     | $\vdash$        | -+       | +        | <b>!</b> ├- | $\dashv$        |          | $\dashv$      | -        | +         | +-       | $\dashv$        | +        | +            | }   |      | 13/ | Н        | $\vdash$         | +       | +         | $\vdash$ | $\vdash$        |          |          |
| 40   90   140   141     41   91   141   141     42   92   142   142     43   93   143   143     44   94   144   144     45   95   145   146     46   97   146   147     48   99   99   148     49   149   149   |                        | 30         | +                      | $\dashv$ | +        | $\vdash$     | $\vdash$        | -+       | +        | -           | $\dashv$        |          | $\dashv$      |          | +-        | +        | -+              | +        | +-           | }   |      |     | -        |                  | ╁       | +         | ⊢        | $\vdash \vdash$ | -        | $\dashv$ |
| 41   91   141   142   142   142   143   144   143   144   143   144   144   144   144   144   144   145   146   146   147   147   148   148   148   149   | $\vdash$               |            | $\dashv$               | $\dashv$ | +-       | $\vdash$     |                 | $\vdash$ | +        | -           |                 | 90       | -             | -+       | +-        | +        | $\dashv$        | +        | +            | }   |      |     | $\vdash$ |                  | ╁       | +-        | $\vdash$ | ┝┥              | $\dashv$ | $\dashv$ |
| 42   92   142   143     43   93   143   143     44   94   144   144     95   145   146     96   147   147     98   148   148     99   149   | $\vdash$               |            | +                      | +-       | +-       | $\vdash$     | $\vdash$        | $\vdash$ | +        | -           | $\dashv$        |          | -+            | +        | +         | $\vdash$ | $\dashv$        | +        | +            |     |      |     | Н        | +                | +       | +         | $\vdash$ | $\vdash$        |          | $\dashv$ |
| 43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |                        | 42         | $\dashv$               | +        | +        | H            | $\vdash$        | $\vdash$ | +        | -           | +               | 92       | $\dashv$      | $\dashv$ | +         | $\vdash$ | $\dashv$        | +        | +-           |     |      | 141 | $\vdash$ | $\vdash$         | +       | +         | $\vdash$ | $\vdash$        | -        | $\dashv$ |
| 44 94   45 95   46 96   47 97   48 98   49 148   49 99  | $\vdash \dashv$        | 43         | $\dashv$               | +        | ╁        | H            | Н               | $\dashv$ | +        | -           | <del></del>     |          | $\dashv$      | $\dashv$ | +         | $\vdash$ | $\dashv$        | -        | +            |     | -    | 142 |          |                  | +       | ╁         | $\vdash$ | $\vdash$        | -        | $\dashv$ |
| 45 95   46 96   47 97   48 98   49 99   |                        |            | $\dashv$               | $\dashv$ | T        | ┌┤           | Н               | $\dashv$ | +        | -           |                 |          | 十             | +        | +         | Н        | -+              | $\dashv$ | - -          |     |      |     | $\vdash$ |                  | +-      | +         | $\vdash$ | $\vdash$        |          | $\dashv$ |
| 46 96   47 146   48 97   48 147   98 148   149 149  |                        | 45         | $\top$                 | +        | $\top$   | Н            | Н               | $\dashv$ |          |             |                 |          | 十             |          | +         |          |                 | -        | ė i          |     |      | 145 |          |                  | +-      | 十         | +        | $\vdash$        |          |          |
| 47 97 147   48 98 148   49 149  |                        |            | $\dashv$               | +        | 十        | $\vdash$     | $\vdash$        | $\dashv$ | +-       | -           | <del>-  </del>  | 96       | $\dashv$      | 十        | +         | $\vdash$ | $\dashv$        | +        | +            |     | -    |     | -        |                  | +-      | ╁         | +-       | $\vdash \vdash$ | $\dashv$ | $\dashv$ |
| 48 98   49 148   149 149  |                        |            | $\dashv$               | $\top$   | $\top$   | П            | $\vdash$        | 1        |          | l ⊢         | $\neg$          |          | $\dashv$      | $\dashv$ | +         | H        | $\dashv$        | +        | +            |     | -    |     | $\dashv$ |                  | 十       | +         | 一        | H               | $\dashv$ | $\dashv$ |
| 49 99 149 149   |                        |            | $\dashv$               | $\top$   | $\top$   | П            | Н               | +        | $\top$   | -           | $\dashv$        |          | $\dashv$      | 十        | +         | Н        | $\dashv$        | +        | 1            |     |      |     | $\vdash$ |                  | +       | +         | 1        | $\vdash$        | $\dashv$ | $\dashv$ |
|   |                        | 49         | _                      | 丁        | 1        | П            | $\Box$          | 一        | $\top$   |             |                 | 99       | 十             | $\top$   | $\forall$ | П        | +               | $\neg$   |              |     |      | 149 | $\neg$   | $\dashv$         | T       | T         | T        | $\vdash$        | $\dashv$ | $\dashv$ |
| <u></u>   |                        | 50         |                        |          |          | $\Box$       | $\Box$          | $\Box$   | $\top$   |             | $\neg$          | 100      | 一             | 十        |           | T        | 7               | $\top$   |              |     |      | 150 | $\neg$   | $\neg \uparrow$  | $\top$  | T         | tΤ       | H               | $\dashv$ | $\dashv$ |